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(54) Title: SMMR (SMALL MOLECULE METABOLITE REPORTERS) FOR USE AS *IN VIVO* GLUCOSE BIOSENSORS

(57) Abstract: Small Molecule Metabolite Reporters (SMMRs) for use as *in vivo* glucose biosensors, sensor compositions, and methods of use, are described. The SMMRs include boronic acid-containing xanthene, coumarin, carbostyryl and phenalene-based small molecules which are used for monitoring glucose *in vivo*, advantageously on the skin.



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